

## ADDITIONS TO THE REVISED CATALOGUE OF OHIO VASCULAR PLANTS. VIII\*

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Since the report of a year ago on the additions to the Ohio State Herbarium, we have received a collection of approximately 375 vascular plants, collected and identified in 1840 by the eminent Ohio botanist, William S. Sullivant. This excellently prepared and preserved collection is very valuable from a historical point of view, since many of the plants have not been collected in the state since that time. This probably indicates that these plants have been destroyed by farming, grazing, fire, disease, or insects.

During the past year we have been very fortunate in securing the technical advice of a number of taxonomists who are specialists in some of the more difficult groups. Numerous changes in the nomenclature and identification will be noted in this year's list.

The amateur botanists throughout the state have contributed their usual large number of interesting and valuable plant finds. One of the outstanding collections of the year is a collection of 1485 specimens donated by Robert and William Goslin. These plants were collected in Fairfield County, and although this county has been one of the favorite collecting grounds of Ohio botanists for the past one hundred years, many new and interesting distribution records are coming to light. Another carefully prepared and identified collection, consisting of 586 specimens, was donated by Don M. Brown. These plants were collected in Stark and neighboring counties, and although the collection has not been checked in its entirety, it promises to be one of great value, since most of the plants were collected near the northern boundary of the unglaciated plateau region of the state where very little collecting has been done in the past. Another valuable collection of plants from the sand dune, fossil beach, prairie, and swamp forest complex of Wood and Henry Counties was donated by R. E. Shanks. This collection has contributed a number of new and interesting range extensions.

An entire new set of species distribution maps of the vascular

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flora of Ohio has just been completed, and investigators can now ascertain distribution records without direct examination of the herbarium specimens. A loose-leaf index of all of the reported Ohio species accompanies this set of maps.

A series of twelve papers, dealing with Ohio floristics, is in the process of preparation, and with their completion our knowledge of the distribution of vegetation in the various physiographic regions and ecological habitats of the state should be much more complete.

The following list of additions represent new county or state records, or distribution changes resulting from critical determinations and nomenclatorial changes.

- 1.1. *Botrychium engelmanni* Prantl. Engelmann's Addertongue. Minera Springs, E. Lucy Braun. 1932. Lynx Prairie, Robert B. Gordon. 1935. Buzzard's Roost, Clyde H. Jones. 1937. All stations are in Adams County.
5. *Botrychium obliquum* Muhl. Oblique Grape-fern. Damascus Twp., Henry Co. R. E. Shanks.
6. *Botrychium dissectum* Spreng. Cutleaf Grape-fern. Washington Twp., Henry Co. R. E. Shanks.
7. *Botrychium virginianum* (L.) Sw. Virginia Grape-fern. Damascus Twp., Henry Co. R. E. Shanks.
14. *Phegopteris hexagonoptera* (Mx.) Fee. Broad Beech-fern. Damascus Twp., Henry Co., and Freedom Twp., Wood Co. R. E. Shanks.
16. *Adiantum pedatum* L. Maidenhair-fern. Henry Twp., Wood Co. R. E. Shanks.
17. *Pteris aquilina* L. Common Bracken. Burton, Geauga Co. C. A. Dambach.
- 25a. Change to *Asplenosorus ebenoides* Wherry. We do not have a specimen of this interesting hybrid in the State Herbarium. It is reported to have been collected in Hocking County a number of years ago and from Washington and Lawrence Counties during the past year. Collectors in the plateau counties should be on the lookout for this fern wherever the parents, *Asplenium platyneuron* and *Camptosorus rhizophyllus*, occur in close proximity.
30. *Athyrium angustum* (Willd.) Presl. Upland Lady-fern. Damascus Twp., Henry Co., and Henry Twp., Wood Co. R. E. Shanks.
32. *Camptosorus rhizophyllus* (L.) Link. Walking-fern. Wayne Twp., Tuscarawas Co. Don M. Brown. Athens Co. Bessie B. Bogle.
33. *Dryopteris noveboracensis* (L.) Gr. New York Shield-fern. Damascus Twp., Henry Co. R. E. Shanks.
37. *Dryopteris goldiana* (Hook.) Gr. Goldie's Shield-fern. Wayne Twp., Tuscarawas Co. Don M. Brown. Zaleski, Vinton Co. Walter P. Porter. Brush Creek Twp., Highland Co. Katie M. Roads.
38. *Dryopteris marginalis* (L.) Gr. Marginal Shield-fern. Athens Co. Bessie B. Bogle.
40. *Dryopteris spinulosa* (Muell.) Ktz. Spinulose Shield-fern. Henry Twp., Wood Co. R. E. Shanks. Brush Creek Twp., Highland Co. Katie M. Roads.
42. *Polystichum acrostichoides* (Mx.) Schott. Christmas-fern. Brush Creek Twp. Highland Co. Katie M. Roads.
43. *Dennstaedtia punctilobula* (Mx.) Moore. Boulder-fern. Brown Twp., Carroll Co., and Jackson Twp., Stark Co. Don M. Brown.
45. *Cystopteris fragilis* (L.) Bernh. Fragil Bladder-fern. Henry Twp., Wood Co. R. E. Shanks.

46. *Woodsia obtusa* (Spreng.) Torr. Blunt-lobed Woodsia. Wayne Twp., Tuscarawas Co. Don M. Brown.
54. *Equisetum praealtum* Raf. Great Scouring-rush. Washington Twp., Henry Co. R. E. Shanks. Lawrence Twp., Tuscarawas Co. Don M. Brown.
61. *Equisetum arvense* L. Field Horsetail. Napoleon Twp., Henry Co. R. E. Shanks.
62. *Lycopodium selago*, var. *patens* (Beauv.) Desv. (*L. porophilum*, in part). Fir Club-moss. Portage, Tuscarawas, Licking, Hocking, Fairfield, Ross, Jackson, and Vinton Counties.
63. *Lycopodium lucidulum* Michx. Shining Club-moss. Lucas, Fulton, Allen, Wayne, Champaign, Ashtabula, Lake, Cuyahoga, Medina, Summit, Stark, Tuscarawas, Licking, Coshocton, Perry, Fairfield, Hocking, Ross, Meigs, and Jackson Counties.
- 63.1. *Lycopodium lucidulum*, var. *occidentale* (Clute.) Wilson. (*L. porophilum*, in part). Ashtabula, Portage, Fairfield, Hocking, Pike, and Jackson Counties.
64. *Lycopodium inundatum* L. Bog Club-moss. Lucas, Knox, Portage, Trumbull and Hocking Counties.
65. *Lycopodium clavatum* L. Common Club-moss. Ashtabula, Cuyahoga, Portage, Trumbull, Tuscarawas, Knox, Coshocton, Licking, Perry, and Hocking Counties.
- 65.1. *Lycopodium clavatum*, var. *megastachyon* Fernald & Bissell. Athens Co.
66. *Lycopodium obscurum* L. Tree Club-moss. Defiance, Lucas, Lake, Ashtabula, Trumbull, Medina, Portage, Holmes, Licking, Fairfield, Hocking and Jackson Counties.
- 66.1. *Lycopodium obscurum*, var. *dendroideum* Michx. Jackson Co.
67. *Lycopodium complanatum* L. Trailing Club-moss. Licking, Fairfield, Hocking and Jackson Counties.
- 67.1. *Lycopodium complanatum*, var. *flabelliforme* Fernald. Lucas, Lake, Cuyahoga, Geauga, Summit, Portage, Trumbull, Ashland, Stark, Columbiana, Knox, Coshocton, Tuscarawas, Carroll, Jefferson, Franklin, Muskingum, Belmont, Perry, Morgan, Noble, Washington, Ross, Vinton, Athens, Pike, Jackson, Meigs, Gallia and Lawrence Counties.
- 67.2. *Lycopodium tristachyum* Pursh. Ashtabula, Hocking and Jackson Counties. *Lycopodium* determinations by L. R. Wilson.
85. *Sagittaria rigida* Pursh. Sessile-fruited Arrow-head. Canton Twp., Stark Co. Don M. Brown.
94. *Potamogeton americanus* Cham. & Schl. Long-leaf Pondweed. Bethlehem Twp., Stark Co. Don M. Brown.
100. *Potamogeton praelongus* Wulf. White-stem Pondweed. Plain Twp., Stark Co. Don M. Brown.
101. *Potamogeton perfoliatus* L. Claspingleaf Pondweed. Bethlehem Twp., Stark Co. Don M. Brown.
- 107.1. *Potamogeton diversifolius* Raf. Rafinesque's Pondweed. Hocking, Athens Co. Walter P. Porter.
110. *Potamogeton pectinatus* L. Fennel-leaf Pondweed. Plain Twp., Stark Co. Don M. Brown.
111. *Zannichellia palustris* L. Zannichellia. Jackson Twp., Stark Co. Don M. Brown.
115. *Nelumbo lutea* (Willd.) Pers. American Water-lotus. Lake Twp., Stark Co. Don M. Brown.
121. *Sparganium eurycarpum* Engelm. Broad-fruited Bur-reed. Hope, Vinton Co., and Buchtel, Athens Co. Walter P. Porter and P. S. Wamsley.
126. *Typha angustifolia* L. Narrow-leaf Cat-tail. Barborton, Summit Co. Don M. Brown.
131. *Arisaema dracontium* (L.) Schott. Green-dragon. Liberty Twp., Wood Co. R. E. Shanks.
140. *Scirpus lineatus* Mx. Reddish Bulrush. Montgomery Twp., Wood Co. R. E. Shanks.

146. *Scirpus validus* Vahl. Great Bulrush. Liberty Twp., Wood Co. R. E. Shanks.
156. Change *Eleocharis mutata* (L.) R. & S. to *E. quadrangulata* (Mx.) R. & S.  
157. Change *Eleocharis acuminata* (Muhl.) Nees. to *E. compressa* Sull.  
159. Change *Eleocharis tenuis* (Willd.) Schultes to *E. capitata* (L.) R. Br.  
160. Change *Eleocharis intermedia* (Muhl.) Schultes to *E. reclinata* Kunth.  
163. *Eleocharis engelmanni* Steud. No specimens.  
164. *Eleocharis ovata* (Roth) R. & S. No specimens.  
Eleocharis determinations by Ruth Lois Krehl.
166. *Stenophyllus capillaris* (L.) Britt. Hair-like Stenophyllus. Neotoma, Hocking Co. Edward S. Thomas.
168. *Cyperus strigosus* L. Straw-colored Cyperus. Hocking Twp., Fairfield Co. Robert Goslin. Chestnut Ridge, Sandusky Co., and Liberty Twp., Henry Co. R. E. Shanks.
170. *Cyperus filiculmis* Vahl. Slender Cyperus. Greenfield Twp., Fairfield Co. Robert Goslin.
173. *Cyperus engelmanni* Steud. Engelmann's Cyperus. Henry Twp., Wood Co. R. E. Shanks.
175. *Cyperus erythrorhizos* Muhl. Red-rooted Cyperus. Liberty Twp., Henry Co. R. E. Shanks.
189. *Scleria triglomerata* Mx. Tall Nut-rush. Oak Openings, Lucas Co. Floyd Bartley and Leslie L. Pontius.
196. *Carex convoluta* Mack. Convolute Sedge. Greenfield Twp., Fairfield Co. Robert Goslin.
202. *Carex lavenworthii* Dew. Leavenworth's Sedge. Bern Twp., Fairfield Co. Robert Goslin.
206. *Carex sparganioides* Muhl. Bur-reed Sedge. Richfield Twp., Henry Co., and Henry Twp., Wood Co. R. E. Shanks.
208. *Carex vulpinoidea* Mx. Fox Sedge. Berne Twp., Fairfield Co. Robert Goslin.
209. *Carex annectens* Bickn. Yellow Fox Sedge. Pleasant Twp., Fairfield Co. Robert Goslin.
215. *Carex laevi-vaginata* (Keuk.) Mack. Lancaster, Fairfield Co. William Goslin.
217. *Carex trisperma* Dew. Three-fruited Sedge. Greenfield Twp., Fairfield Co. Robert Goslin.
221. *Carex bromoides* Schk. Brome-like Sedge. Berne Twp., Fairfield Co. Robert Goslin.
233. *Carex straminea* Willd. Straw Sedge. Berne Twp., Fairfield Co. Robert Goslin.
247. *Carex emoryi* Dew. Emory's Sedge. Berne Twp., Fairfield Co. Charles and Robert Goslin.
253. *Carex durifolia* Bail. Back's Sedge. Silica Hollow, Hocking Co., and Waterloo Twp., Athens Co. Floyd Bartley and Leslie L. Pontius.
256. *Carex pennsylvanica* Lam. Pennsylvania Sedge. Berne Twp., Fairfield Co. William Goslin.
257. *Carex varia* Muhl. Emmon's Sedge. Waterloo Twp., Athens Co. Walter P. Porter. Pleasant Twp., Fairfield Co. Robert Goslin.
258. *Carex hirtifolia* Mack. Pubescent Sedge. Lancaster, Fairfield Co. Robert Goslin.
270. *Carex albursina* Sheld. White Bear Sedge. Greenfield Twp., Fairfield Co. Robert Goslin.
276. *Carex granularis* Muhl. Meadow Sedge. Lancaster, Fairfield Co. William Goslin.
289. *Carex swanii* (Fern.) Mack. Swan's Sedge. Greenfield Twp., Fairfield Co. Robert Goslin.
297. *Carex shortiana* Dew. Short's Sedge. Berne Twp., Fairfield Co. Robert Goslin.
317. *Carex frankii* Kunth. Frank's Sedge. Henry Twp., Wood Co. R. E. Shanks.

318. *Carex squarrosa* L. Squarrose Sedge. Washington Twp., Henry Co., and Henry Twp., Wood Co. R. E. Shanks.
321. *Carex asa-grayi* Bail. Gray's Sedge. Freedom Twp., Wood Co. R. E. Shanks.
323. *Carex lupulina* Muhl. Hop Sedge. Harrison Twp., Henry Co., and Montgomery Twp., Wood Co. R. E. Shanks.
329. *Bromus racemosus* L. Upright Chess. Berne Twp., Fairfield Co. Robert Goslin.
334. *Bromus purgans* L. Hairy Brome-grass. Lawrence Twp., Tuscarawas Co. Don M. Brown.
335. *Bromus tectorum* L. Downy Brome-grass. Hocking Twp., Fairfield Co. Robert Goslin.
342. *Festuca ovina* L. Sheep Fescue-grass. Hocking Twp., Fairfield Co. Robert Goslin.
344. *Festuca octoflora* Walt. Slender Fescue-grass. Jackson Twp., Stark Co. Don M. Brown.
350. *Panicularia nervata* (Willd.) Ktz. Nerved Mann-grass. Pike Twp., Stark Co. Don M. Brown.
361. *Poa triflora* Gilib. Fowl Meadow-grass. Plain Twp., Stark Co. Don M. Brown.
362. *Poa pratensis* L. Kentucky Blue-grass. Berne Twp., Fairfield Co. Robert Goslin.
365. *Dactylis glomerata* L. Orchard-grass. Berne Twp., Fairfield Co. Robert Goslin.
368. *Eragrostis major* Host. Strong-scented Love-grass. Liberty Twp., Wood Co. R. E. Shanks. Canton, Stark Co. Don M. Brown.
370. *Eragrostis purshii* Schrad. Pursh's Love-grass. Canton, Stark Co. Don M. Brown.
371. *Eragrostis pilosa* (L.) Beauv. Tufted Love-grass. Lancaster, Fairfield Co. Robert and William Goslin.
373. *Eragrostis capillaris* (L.) Ness. Capillary Love-grass. Lancaster, Fairfield Co. Robert Goslin. Athens Co. Len Stephenson.
385. *Arrhenatherum elatius* (L.) Beauv. Oat-grass. Hocking Twp., Fairfield Co. Robert Goslin.
386. *Trisetum pennsylvanicum* (L.) Beauv. Marsh False-oats. Greenfield Twp., Fairfield Co. Robert Goslin.
395. *Sporobolus vaginæflorus* Torr. Sheathed Rush-grass. Lancaster, Fairfield Co. Robert Goslin.
404. *Agrostis alba* L. Red-top Bent-grass. Greenfield Twp., Fairfield Co. Robert Goslin. Hillsboro, Highland Co. Katie M. Roads.
407. *Agrostis hyemalis* (Walt.) B. S. P. Rough Bent-grass. Canton, Stark Co. Don M. Brown.
409. *Cinna arundinacea* L. Wood Reed-grass. Montgomery Twp., Wood Co. R. E. Shanks.
417. *Muhlenbergia mexicana* (L.) Trin. Mexican Muhlenbergia. Lancaster, Fairfield Co. Robert Goslin.
418. *Muhlenbergia racemosa* (Mx.) B. S. P. Marsh Muhlenbergia. Jackson Twp., Stark Co. Don M. Brown.
421. *Muhlenbergia schreberi* Gmel. Spreading Muhlenbergia. Liberty Twp., Wood Co. R. E. Shanks. Lancaster, Fairfield Co. Robert Goslin.
422. *Brachyelytrum erectum* (Schreb.) Beauv. Brachyelytrum. Wayne Twp., Tuscarawas Co. Don M. Brown.
423. *Millium effusum* L. Tall Millet-grass. Lawrence Twp., Tuscarawas Co. Don M. Brown.
427. *Aristida dichotoma* Mx. Poverty-grass. Neotoma, Hocking Co. Edward S. Thomas.
433. *Phalaris arundinacea* L. Reed Canary-grass. Liberty Twp., Wood Co. R. E. Shanks.
435. *Anthoxanthum odoratum* L. Sweet Vernal-grass. Lawrence Twp., Tuscarawas Co. Don M. Brown.
438. *Lolium multiflorum* Lam. Awned Darnel. Canton, Stark Co. Don M. Brown.

439. *Agropyron repens* (L.) Beauv. Couch-grass. Plain Twp., Stark Co. Don M. Brown. Lancaster, Fairfield Co. Robert Goslin.
440. *Agropyron smithii* Rydb. Western Wheat-grass. Introduced along railway tracks near Canton, Stark Co. Don M. Brown.
452. *Hordeum jubatum* L. Squirrel-tail Barley. Sugar Creek Twp., Stark Co. Don M. Brown. Lancaster, Fairfield Co. Robert Goslin.
460. *Homalocenchrus virginicus* (Willd.) Britt. Virginia Cut-grass Berne Twp., Fairfield Co. Robert Goslin. Richfield Twp., Henry Co. R. E. Shanks.
461. *Homalocenchrus oryzoides* (L.) Poll. Rice Cut-grass. Canton Twp., Stark Co. Don M. Brown.
463. *Zizania aquatica* L. Wild-rice. Summit Co. Don M. Brown.
466. *Panicum virgatum* L. Tall Smooth Panic-grass. Canton Twp., Stark Co. Don M. Brown.
467. *Panicum dichotomiflorum* Mx. Spreading Panic-grass. Richfield Twp., Henry Co. R. E. Shanks. Berne Twp., Fairfield Co. Robert Goslin.
473. *Panicum gattingeri* Nash. Gattinger's Panic-grass. Lancaster, Fairfield Co. Robert Goslin.
479. *Panicum linearifolium* Scribn. Linear-leaf Panic-grass. Pleasant Twp., Fairfield Co. Robert Goslin.
488. *Panicum lindheimeri* Nash. Lindheimer's Panic-grass. Adams Co. Floyd Bartley and Leslie L. Pontius.
496. *Panicum clandestinum* L. Hispid Panic-grass. Harrison Twp., Henry Co. R. E. Shanks.
497. *Panicum latifolium* L. Broad-leaf Panic-grass. Liberty Twp., Wood Co. R. E. Shanks.
498. *Panicum boscii* Poir. Bosc's Panic-grass. Liberty Twp., Wood Co. R. E. Shanks.
499. *Leptoloma cognatum* (Schultes) Chase. Fall Witch-grass. Penn Twp., Highland Co. Katie M. Roads.
500. *Syntherisma filiforme* (L.) Nash. Slender Crab-grass. Neotoma, Hocking Co. Edward S. Thomas.
501. *Syntherisma ischaemum* (Schreb.) Nash. Small Crab-grass. Pike Twp., Stark Co. Don M. Brown.
508. *Paspalum setaceum* Mx. Slender Paspalum. Berne Twp., Fairfield Co. Robert Goslin.
509. *Chaetochloa verticillata* (L.) Scribn. Verticillate Foxtail-grass. Lancaster, Fairfield Co. Robert Goslin.
513. *Cenchrus pauciflorus* Benth. Sandbur-grass. Lancaster, Fairfield Co. Robert and William Goslin.
516. *Sorghastrum nutans* (L.) Nash. Indian-grass. Berne Twp., Robert, William and Charles Goslin.
519. *Andropogon furcatus* Muhl. Big Bluestem. New Vienna, Clinton Co. Katie M. Roads. Sandy Twp., Stark Co. Don M. Brown.
522. *Andropogon scoparius* Mx. Little Bluestem. Jackson Twp., Stark Co. Don M. Brown.
527. *Lilium canadense* L. Canada Lily. Berne Twp., Fairfield Co. Robert and William Goslin. Pike Twp., Stark Co. Don M. Brown. Burton, Geauga Co. C. A. Dambach.
531. *Erythronium albidum* Nutt. White Dog-tooth Lily. Lawrence Twp., Tuscarawas Co. Don M. Brown.
534. *Allium tricoccum* Ait. Wild Leek. Sugarcreek Twp., Stark Co. Don M. Brown. Brush Creek Twp., Highland Co. Katie M. Roads.
- 535.1. *Allium sativum* L. European Garlic. New Vienna, Clinton Co. Katie M. Roads.
541. *Quamasia hyacinthina* (Raf.) Britt. Wild Hyacinth. Sugarcreek Twp., Stark Co. Don M. Brown.
551. *Anticlea elegans* (Pursh.) Rydb. Glauous Anticlea. New Moorefield, Clark Co. C. A. Dambach.
552. *Stenanthium robustum* Wats. Stout Stenanthium. Pike Twp., Stark Co. Don M. Brown.
554. *Triantha glutinosa* (Mx.) Baker. Glutinous Triantha. New Moorefield, Clark Co. C. A. Dambach.

562. *Medeola virginiana* L. Indian Cucumber-root. Liberty Twp., Wood Co. R. E. Shanks. Burton, Geauga Co. C. A. Dambach.
567. *Disporum lanuginosum* (Mx.) Nich. Hairy Disporum. Greenfield Twp., Fairfield Co. Robert Goslin. Osnaburg Twp., Stark Co. Don M. Brown.
571. *Vagnera racemosa* (L.) Mor. Panicle False Solomon's-seal. Burton, Geauga Co. C. A. Dambach.
572. *Vagnera stellata* (L.) Mor. Stellate False Solomon's-seal. Jackson Twp., Stark Co. Don M. Brown.
584. *Smilax rotundifolia* L. Round-leaf Greenbriar. Wayne Twp., Tuscarawas Co. Don M. Brown.
593. *Juncus effusus* L. Common Rush. Montgomery Twp., Wood Co. R. E. Shanks.
596. *Juncus dudleyi* Wieg. Dudley's Rush. Berne Twp., Fairfield Co. Robert Goslin.
597. *Juncus tenuis* Willd. Slender Rush. Neotoma, Hocking Co. Edward S. Thomas.
617. *Hypoxis hirsuta* (L.) Cov. Yellow Stargrass. Brown Twp., Carroll Co. Don M. Brown.
627. *Iris versicolor* L. Northern Blue-flag. Hooker, Fairfield Co. William Goslin. Also Waynesburg, Carroll Co., and Barberton, Summit Co. Don M. Brown.
644. *Lysias orbiculata* (Pursh.) Rydb. Large Round-leaf Orchis. Brown Twp., Carroll Co. Don M. Brown.
648. *Blephariglotis lacera* (Mx.) Farw. Ragged Fringed-orchis. Burton, Geauga Co. C. A. Dambach.
652. *Blephariglotis psycodes* (L.) Rydb. Smaller Purple Fringed-orchis. Oak Openings, Lucas Co. Floyd Bartley and Leslie L. Pontius.
658. *Ibidium gracile* (Bigel.) House. Slender Lady's-tresses. Mill Twp., Tuscarawas Co. Irma Nelson.
666. *Malaxis unifolia* Mx. Green Adder-mouth. Vinton Co. Floyd Bartley and Leslie L. Pontius.
667. *Liparis liliifolia* (L.) Rich. Large Twayblade. Mill Twp., Tuscarawas Co. Irma Nelson. Brown Twp., Carroll Co. Don M. Brown.
672. *Corallorrhiza maculata* Raf. Large Coral-root. Rock Run, Jackson Co. Floyd Bartley and Leslie L. Pontius.
679. *Liriodendron tulipifera* L. Tuliptree. Damascus Twp., Henry Co. R. E. Shanks.
680. *Asimina triloba* (L.) Dunal. Papaw. Damascus Twp., Henry Co. R. E. Shanks.
- 682.1. *Ranunculus alleghaniensis* Britt. Mountain Crow-foot. Hope, Vinton Co. Walter P. Porter.
691. *Ranunculus fascicularis* Muhl. Tufted Buttercup. Twerton Twp., Coshoc-ton Co. Floyd Von Ohlen.
706. *Delphinium tricornis* Mx. Dwarf Larkspur. Fairfield Twp., Tuscarawas Co. Don M. Brown.
740. *Benzoin aestivale* (L.) Nees. Spicebush. Montgomery Twp., Wood Co. R. E. Shanks.
- 764.1. *Lesquerella globosa* (Desv.) S. Wats. Short's Bladder-pod. Vinton Co. Len Stephenson.
769. *Camelina sativa* (L.) Crantz. Common False-flax. Berne Twp., Fairfield Co. Robert Goslin.
770. *Camelina microcarpa* Andr. Small-fruited False-flax. Jackson Twp., Stark Co. Don M. Brown.
779. *Lepidium campestre* (L.) R. Br. Field Peppergrass. Hocking Twp., Fairfield Co. William Goslin.
786. *Thlaspi arvense* L. Field Penny-cress. Berne Twp., Fairfield Co. Robert Goslin.
791. *Sophia incisa* (Engelm.) Greene. Western Tansy-mustard. Berne Twp., Fairfield Co. Robert and William Goslin.
821. *Cardamine pennsylvanica* Muhl. Pennsylvania Bitter-cress. Berne Twp., Fairfield Co. Robert Goslin.

827. *Dentaria heterophylla* Nutt. Slender Toothwort. Berne Twp., Fairfield Co. William Goslin.
828. *Dentaria multifida* Muhl. Multifid Toothwort. Lodi Twp., Athens Co. Walter P. Porter.
853. *Geranium pusillum* L. Small-flowered Crane's-bill. Lawrence Twp., Tuscarawas Co. Don M. Brown.
862. *Oxalis violacea* L. Violet Wood-sorrel. Brown Twp., Carroll Co. Don M. Brown.
872. *Floerkea proserpinacoides* Willd. False-mermaid. Pleasant Twp., Fairfield Co. Robert Goslin. Lodi Twp., Athens Co. Walter P. Porter.
876. *Zanthoxylum americanum* Mill. Prickly-ash. Sugar Creek Twp., Stark Co. Don M. Brown.
877. *Ptelea trifoliata* L. Hop-tree. Sandy Twp., Tuscarawas Co. Don M. Brown. Troy Twp., Wood Co. R. E. Shanks.
883. *Polygala incarnata* L. Pink Milkwort. Madison Twp., Fairfield Co. Helen and Jean Rea.
892. *Croton monanthogynus* Mx. Single-fruited Croton. Canaan Twp., Athens Co. Warren Abbott.
895. *Poinsettia dentata* (Mx.) Small. Toothed Spurge. Bellefontaine, Logan Co. A. G. Welshimer.
898. *Tithymalus platyphyllus* (L.) Hill. Broadleaf Spurge. Maumee, Lucas Co. Chas. C. Deam.
903. *Tithymalus peplus* (L.) Hill. Petty Spurge. Hillsboro, Highland Co. Katie M. Roads.
905. *Tithymalopsis corollata* (L.) Kl. and Garcke. Flowering Spurge. Washington Twp., Henry Co. R. E. Shanks.
915. *Callitriche austini* Engelm. Terrestrial Water-starwort. Scioto Twp., Ross Co. Edward S. Thomas, Joe Enke and J. S. Thomas.
925. *Napaea dioica* L. Glade Mallow. Dover Twp., Tuscarawas Co. Clyde H. Jones.
931. *Hibiscus trionum* L. Bladder Ketmia. Athens, Athens Co. Flora E. Hall.
937. *Hypericum prolificum* L. Shrubby St. John's-wort. Burton, Geauga Co. C. A. Dambach.
939. *Hypericum perforatum* L. Common St. John's-wort. Zane Twp., Logan Co. A. G. Welshimer. Henry Twp., Wood Co. R. E. Shanks.
944. *Hypericum mutilum* L. Small-flowered St. John's-wort. Washington Twp., Highland Co. Katie M. Roads. Damascus Twp., Henry Co. R. E. Shanks.
950. *Triadenum virginicum* (L.) Raf. Marsh St. John's-wort. Sandy Twp., Stark Co. Don M. Brown.
952. *Crocanthemum majus* (L.) Britt. Hoary Frostweed. Plain Twp., Wood Co. R. E. Shanks.
956. *Lechea racemulosa* Lam. Oblong-fruited Pinweed. Mill Twp., Tuscarawas Co. Irma Nelson.
962. *Cubelium concolor* (Forst.) Raf. Green Violet. Dover Twp., Tuscarawas Co. Irma Nelson.
964. *Viola eriocarpa* Schw. Smooth Yellow Violet. Athens Twp., Athens Co. Warren Abbott.
967. *Viola striata* Ait. Striped Violet. Brown Twp., Carroll Co. Don M. Brown. Dover Twp., Tuscarawas Co. Irma Nelson.
970. *Viola rostrata* Pursh. Long-spurred Violet. Plain Twp., Stark Co. Don M. Brown. Dover Twp., Tuscarawas Co. Irma Nelson.
971. *Viola rafinesquii* Greene. Wild Pansy. Alexander Twp., Athens Co. Harold H. Moore.
- 971.1. *Viola arvensis* Murr. Field Pansy. Lawrence Twp., Tuscarawas Co. Don M. Brown.
975. *Viola blanda* Willd. Sweet White Violet. Athens Twp., Athens Co. Warren Abbott.
976. *Viola pallens* (Banks) Brain. Woodland White Violet. Plain Twp., Stark Co. Don M. Brown.
980. *Viola papilionacea* Pursh. Common Blue Violet. Canton, Stark Co. Don M. Brown.



981. *Viola sororia* Willd. Woolly Blue Violet. Loudonville, Ashland Co. Don M. Brown.
994. *Viola palmata* L. Early Blue Violet. Athens Twp., Athens Co. Warren Abbott.
987. *Viola fimbriatula* Sm. Ovate-leaf Violet. Sandy Twp., Stark Co. Rose Twp., Carroll Co. Don M. Brown. Red Hills, Franklin Co. C. A. Dambach.
988. *Viola sagittata* Ait. Arrow-leaf Violet. Plain Twp., Stark Co. Don M. Brown. The Plains, Athens Co. Walter P. Porter.
990. *Passiflora incarnata* L. Purple Passion-flower. Escaped from cultivation on North Hill, Athens, Athens Co. Warren Abbott.
1001. *Alsine media* L. Common Chickweed. Lawrence Twp., Tuscarawas Co. Don M. Brown.
1003. *Alsine longifolia* (Muhl.) Britt. Longleaf Stitchwort. Berne Twp., Fairfield Co. Robert Goslin.
1104. *Alsine graminea* (L.) Britt. Lesser Stitchwort. Hospital Grounds, Athens, Athens Co. Walter P. Porter and P. S. Wamsley.
1005. *Cerastium vulgatum* L. Common Mouse-ear Chickweed. Pleasant Twp., Fairfield Co. Robert Goslin. Athens, Athens Co. Warren Abbott.
1006. *Cerastium viscosum* L. Mouse-ear Chickweed. Conkle's Hollow, Hocking Co. Edward S. Thomas and A. R. Harper. Athens Twp., Athens Co. Warren Abbott.
1013. *Agrostemma githago* L. Corn Cockle. Burton, Geauga Co. C. A. Dambach.
1015. *Lychnis alba* Mill. White Lychnis. Willowdale Lake, Stark Co. Don M. Brown.
1020. *Silene latifolia* (Mill.) Britt. & Rend. Bladder Campion. Brown Twp., Carroll Co. Don M. Brown. Mantua Twp., Portage Co. C. A. Dambach.
1026. *Silene virginica* L. Fire Pink. Athens Twp., Athens Co. Warren Abbott. Liberty Twp., Wood Co. R. E. Shanks.
1031. *Silene antirrhina* L. Sleepy Catchfly. Liberty Twp., Wood Co. R. E. Shanks.
1038. *Claytonia virginica* L. Spring-beauty. Lawrence Twp., Tuscarawas Co. Don M. Brown.
1042. *Mollugo verticillata* L. Carpetweed. Liberty Twp., Wood Co. R. E. Shanks.
1047. *Anychia polygonoides* Raf. Forked Anychia. Pike Twp., Stark Co. Don M. Brown.
1048. *Anychia canadensis* (L.) B. S. P. Slender Anychia. Liberty Twp., Wood Co. R. E. Shanks.
1052. *Amaranthus hybridus* L. Slender Pigweed. Liberty Twp., Wood Co. R. E. Shanks.
1054. *Amaranthus graecizans* L. Tumble-weed. Willowdale Lake, Stark Co. Don M. Brown.
1056. *Acnida tuberculata* Moq. Tubercled Water-hemp. Berne Twp., Fairfield Co. Robert and William Goslin.
1068. *Chenopodium botrys* L. Feather-geranium. Barberton, Summit Co. Don M. Brown.
1081. *Steironema lanceolatum* (Walt.) Gr. Lanceleaf Yellow Loosestrife. Hocking Twp., Fairfield Co. William Goslin.
1085. *Lysimachia nummularia* L. Moneywort. Berne Twp., Fairfield Co. William Goslin. Burton, Geauga Co. C. A. Dambach.
1094. *Rumex verticillatus* L. Swamp Dock. Burton, Geauga Co. C. A. Dambach.
1095. *Rumex altissimus* Wood. Tall Dock. Berne Twp., Fairfield Co. Robert and William Goslin.
1098. *Rumex britannica* L. Great Water Dock. Willowdale Lake, Stark Co. Don M. Brown.
1106. *Tintaria dumetorum* (L.) Opiz. Copse False Buckwheat. Canaan Twp., Athens Co. Warren Abbott.
1109. *Tracaulon arifolium* (L.) Raf. Halberd-leaf Tear-thumb. Berne Twp., Fairfield Co. Robert Goslin.
1113. *Persicaria hydropiperoides* (Mx.) Small. Mild Smartweed. Henry Twp., Wood Co. R. E. Shanks.

1118. *Persicaria muhlenbergii* (Wats.) Small. Swamp Persicaria. Berne Twp., Fairfield Co. Robert and William Goslin.
1128. *Geum vernum* (Raf.) T. & G. Spring Avens. Liberty Twp., Wood Co. R. E. Shanks.
1129. *Geum canadense* Jacq. White Avens. Berne Twp., Fairfield Co. William Goslin. Liberty Twp., Wood Co. R. E. Shanks.
1131. *Geum flavum* (Port.) Bickn. Cream-colored Avens. Athens Co. Floyd Bartley and Leslie L. Pontius.
1138. *Potentilla canadensis* L. Common Five-finger. Burton, Geauga Co. C. A. Dambach.
1143. *Drymocallis agrimonioides* (Pursh.) Rydb. Tall Cinquefoil. Isaac Walton Farm, Athens Co. Walter P. Porter.
- 1144.1. *Duchesnea indica* (Andr.) Fooke. Indian Strawberry. Athens Co. Warren Abbott.
1149. *Rubus phoenicolasius* Max. Wineberry. Salem Twp., Meigs Co. Clyde H. Jones.
1151. *Rubus strigosus* Mx. Wild Red Raspberry. Salem Twp., Meigs Co. Clyde H. Jones.
1153. *Rubus laciniatus* Willd. Cutleaf Blackberry. Champaign Co. Margaret B. Church.
1159. *Porteranthus trifolius* (L.) Britt. Indian-physic. O. S. U. Botanical Garden. Introduced with Rhododendron clumps from the Great Smokies. Clyde H. Jones.
1162. *Filipendula rubra* (Hill.) Rob. Queen-of-the-prairie. The Plains, Athens Co. Walter P. Porter.
1164. *Opulaster opulifolius* (L.) Ktz. Ninebark. Monroe Twp., Henry Co. R. E. Shanks. Berne Twp., Fairfield Co. Robert Goslin.
1168. *Aruncus sylvestris* Kost. Aruncus. Fairfield Co. William Goslin.
1171. *Rosa rubiginosa* L. Sweetbriar. Liberty Twp., Wood Co. R. E. Shanks.
1178. *Rosa virginiana* Mill. Virginia Rose. Liberty Twp., Wood Co. R. E. Shanks.
1180. *Agrimonia rostellata* Wallr. Woodland Agrimony. Lawrence Twp., Tuscarawas Co. Don M. Brown.
1183. *Agrimonia gryposepala* Wallr. Hairy Agrimony. Berne Twp., Fairfield Co. William Goslin.
1207. *Amelanchier sanguinea* (Pursh.) DC. Roundleaf Juneberry. Good Hope Twp., Hocking Co. Edward S. Thomas.
1234. *Cassia marilandica* L. Wild Senna. Hocking Co. Warren Abbott.
1240. Change to 1240a. *Baptisia tinctoria crebra* Fernald. *B. tinctoria typica* is not known to occur in the state. Baptisia determinations by M. M. Larisey.
1248. *Trifolium agrarium* L. Yellow Hop Clover. Plain Twp., Stark Co. Don M. Brown.
1261. *Cracca virginiana* L. Virginia Goat's-rue. Mill Twp., Tuscarawas Co. Irma Nelson.
1269. *Psoralea onobrychis* Nutt. Sainfoin Psoralea. Fairfield Co. William Goslin.
1273. *Meibomia canescens* (L.) Ktz. Hoary Tick-trefoil. Berne Twp., Fairfield Co. William Goslin.
1276. *Meibomia michauxii* Vail. Prostrate Tick-trefoil. Newark Twp., Licking Co. Warren Abbott.
1284. *Meibomia sessilifolium* (Torr.) Ktz. Sessile-leaf Tick-trefoil. Oak Openings, Lucas Co. Floyd Bartley and Leslie L. Pontius.
1288. *Meibomia nudiflora* (L.) Ktz. Naked-flowered Tick-trefoil. Perry Twp., Tuscarawas Co. Irma Nelson.
1290. *Lespedeza capitata* Mx. Round-headed Bush-clover. Jackson Twp., Stark Co. Don M. Brown.
1296. *Lespedeza procumbens* Mx. Trailing Bush-clover. Athens Twp., Athens Co. Walter P. Porter. Wingfoot Lake, Portage Co. Don M. Brown.
1300. *Vicia cracca* L. Cow Vetch. Suffield, Portage Co. Don M. Brown.
1318. *Glycine apios* L. Groundnut. Berne Twp., Fairfield Co. Robert Goslin.
1331. *Penthorum sedoides* L. Ditch Stonecrop. Pleasant Twp., Henry Co. R. E. Shanks.
1332. *Micranthes virginicensis* (Mx.) Small. Early Saxifrage. Wayne Twp., Tuscarawas Co. Don M. Brown. Athens, Athens Co. Warren Abbott.

1333. *Micranthes pennsylvanica* (L.) Haw. Pennsylvania Saxifrage. The Plains, Athens Co. Walter P. Porter and P. S. Wamsley.
1335. *Tiarella cordifolia* L. False Miterwort. Athens, Athens Co. Warren Abbott.
1336. *Heuchera americana* L. Common Alum-root. Liberty Twp., Wood Co. R. E. Shanks.
1346. *Lythrum alatum* Pursh. Wing-angled Loosestrife. Licking Co. Warren Abbott. Berne Twp., Fairfield Co. Robert and William Goslin. Liberty Twp., Wood Co. R. E. Shanks.
1353. *Rhamnus frangula* L. Black Buckthorn. Canton Twp., Stark Co. Don M. Brown.
1359. *Vitis labrusca* L. Northern Fox Grape. Lorain and Jackson Counties.
- 1359.1. *Vitis labruscana* Bail. Ashtabula County.
1360. *Vitis aestivalis* Mx. Summer Grape. Auglaize, Medina, Summit, Monroe, Jackson and Lawrence Counties.
- 1360.1. *Vitis aestivalis*, form *argentifolia* (Muns.) Fernald. General in the plateau counties of the state.
1361. *Vitis cinerea* Engelm. Ashy Grape. Brown, Scioto, and Meigs Counties.
1362. *Vitis bicolor* LeC. Winter Grape. General in the plateau counties of the state. Also Williams and Henry Counties.
1363. *Vitis vulpina* L. Riverside Grape. General.
1364. *Vitis cordifolia* Mx. Frost Grape. General.  
Vitis determinations by R. W. Pohl.
1370. *Euonymus obovatus* Nutt. Running Strawberry-bush. Brown Twp., Carroll Co. Don M. Brown.
1375. *Ilex verticillata* (L.) Rr. Winterberry. Wayne Twp., Tuscarawas Co. Don M. Brown. The Plains, Athens Co. Walter P. Porter. Liberty Twp., Wood Co. R. E. Shanks. Berne Twp., Fairfield Co. Robert Goslin.
1376. *Staphylea trifolia* L. American Bladdernut. Berne Twp., Fairfield Co. William Goslin. Henry Twp., Wood Co. R. E. Shanks.
1381. *Acer nigrum* Mx. Black Maple. Troy Twp., Wood Co. R. E. Shanks.
1382. *Acer saccharum* Marsh. Sugar Maple. Fairfield Twp., Tuscarawas Co. Don M. Brown.
1389. *Rhus hirta* (L.) Sudw. Staghorn Sumac. Portage and Stark Counties. Don M. Brown.
1391. *Schmaltzia crenata* (Mill.) Greene. Fragrant Sumac. Troy Twp., Wood Co. R. E. Shanks.
1407. *Cannabis sativa* L. Hemp. Mad River Twp., Champaign Co. A. G. Welshimer.
1411. *Urtica dioica* L. Stinging Nettle. Wingfoot Lake, Portage Co. Don M. Brown.
1414. *Pilea pumila* (L.) Gr. Clearweed. Brush Creek Twp., Highland Co. Katie M. Roads.
1415. *Boehmeria cylindrica* (L.) Sw. False Nettle. Plain Twp., Wood Co. R. E. Shanks.
1416. *Parietaria pennsylvanica* Muhl. Pennsylvania Pellitory. Troy Twp., Wood Co. R. E. Shanks.
1421. *Quercus montana* Willd. Rock Chestnut Oak. Brush Creek Twp., Highland Co. Katie M. Roads.
1423. *Quercus alba* L. White Oak. Waynesburg, Stark Co. Don M. Brown.
1425. *Quercus macrocarpa* Mx. Bur Oak. Plain Twp., Stark Co. Don M. Brown.
- 1426.1. *Quercus leana* Nutt. (*imbricaria* x *velutina*). Lea's Oak. Kettle Hills, Fairfield Co. Clyde H. Jones.
1431. *Quercus coccinea* Wang. Scarlet Oak. Canton Twp., Stark Co. Don M. Brown.
1432. *Quercus rubra* L. Red Oak. Liberty Twp., Wood Co. R. E. Shanks.
1434. *Carpinus caroliniana* Walt. Blue-beech. Lawrence Twp., Tuscarawas Co. Don M. Brown.
1444. *Alnus vulgaris* Hill European Alder. Escaped from cultivation and growing at the mouth of Chagrin River, Lake Co. Don M. Brown.

1447. *Hicoria microcarpa* (Nutt.) Britt. Small-fruited Hickory. Montgomery Twp., Wood Co. R. E. Shanks.
1453. *Juglans cinerea* L. Butternut. Troy Twp., Wood Co. R. E. Shanks.
1457. *Populus heterophylla* L. Swamp Poplar. Canton Twp., Stark Co. Don M. Brown.
1465. *Salix nigra* Marsh. Black Willow. Plain Twp., Stark Co. Don M. Brown.
1467. *Salix fragilis* L. Crack Willow. Richfield Twp., Henry Co. R. E. Shanks.
1471. *Salix babylonica* L. Weeping Willow. A dozen large trees in a swamp near Hillsboro, Highland Co. Katie M. Roads.
1472. *Salix interior* Row. Sandbar Willow. Montgomery Twp., Wood Co. R. E. Shanks.
- 1473a. *Salix glaucophylla albovestita* Ball. Erie Co.
1474. *Salix cordata* Muhl. Heartleaf Willow. Athens Twp., Athens Co. Harold H. Moore.
1475. *Salix adenophylla* Hook. is a northern species and is not known to occur in Ohio.
1476. *Salix pedicellaris* Pursh. Bog Willow. Jackson Twp., Stark Co. Don M. Brown.
1482. *Salix humulis* Marsh. Prairie Willow. Dover Twp., Tuscarawas Co. Don M. Brown. Washington Twp., Henry Co. R. E. Shanks.
1488. *Hydrangea arborescens* L. Wild Hydrangea. Wayne Twp., Tuscarawas Co. Don M. Brown.
1490. *Ribes americanum* Mill. Wild Black Currant. Berne Twp., Fairfield Co. Robert Goslin.
1499. *Ludwigia alternifolia* L. Seed-box. Jackson Twp., Stark Co. Don M. Brown.
1501. *Chamaenerion angustifolium* (L.) Scop. Fire-weed. Brown Twp., Carroll Co. Don M. Brown.
1503. *Epilobium strictum* Muhl. Downy Willow-herb. Jackson Twp., Stark Co. Don M. Brown.
1505. *Epilobium adenocaulon* Haussk. Northern Willow-herb. Berne Twp., Fairfield Co. William Goslin.
1509. *Kneiffia pratensis* Small. Meadow Sundrops. Wayne Twp., Tuscarawas Co. Don M. Brown.
1510. *Kneiffia pumila* (L.) Spach. Small Sundrops. Lawrence Twp., Tuscarawas Co. Don M. Brown.
1512. *Kneiffia fruticosa* (L.) Raim. Common Sundrops. Fairfield Co. William Goslin.
1516. *Gaura biennis* L. Biennial Gaura. Lawrence Twp., Tuscarawas Co. Don M. Brown.
1517. *Circaea lutetiana* L. Common Enchanter's-nightshade. Liberty Twp., Wood Co. R. E. Shanks.
1542. *Kalmia latifolia* L. Mountain Kalmia. Wayne Twp., Tuscarawas Co. Don M. Brown.
1543. *Epigaea repens* L. Trailing Arbutus. Sandy Twp., Stark Co. Don M. Brown.
1551. *Pyrola elliptica* Nutt. Shinleaf Wintergreen. Rush Twp., Tuscarawas Co. Irma Nelson. Berne Twp., Fairfield Co. William Goslin.
1558. *Polycodium stamineum* (L.) Greene. Deerberry. Fairfield Twp., Tuscarawas Co. Don M. Brown.
1567. *Gaylussacia baccata* (Wang.) Kock. Black Huckleberry. Washington Twp., Henry Co. R. E. Shanks.
1568. *Diospyros virginiana* L. Persimmon. Hocking Twp., Fairfield Co. William Goslin.
- 1571.1. *Polemonium reptans* L. var. *villosum* Braun. Hairy Greek Valerian. Segregated as a variety in 1939 by E. Lucy Braun from material collected in Adams Co. Examination of the *Polemonium* material in the State Herbarium yields specimens of this variety from the following counties: Scioto, Pike, Jackson, Lawrence, Montgomery, Mercer, and Darke.
1575. *Phlox paniculata* L. Garden Phlox. (Albino form). Zaleski, Vinton Co. Walter P. Porter.
1589. *Convolvulus spithameus* L. Upright Bindweed. Mill Twp., Tuscarawas Co. Irma Nelson.

1606. *Phacelia purshii* Buckl. Pursh's Phacelia. Millville Twp., Butler Co. C. A. Dambach.
1615. *Fraxinus quadrangulata* Mx. Blue Ash. Marion Twp., Henry Co. Troy Twp., Wood Co. R. E. Shanks.
1628. *Gentiana andrewsii* Griseb. Closed Gentian. Harrison Twp., Henry Co. R. E. Shanks.
1632. *Bartonia virginica* (L.) B. S. P. Yellow Bartonia. Oak Openings. Lucas Co. Floyd Bartley and Leslie L. Pontius.
1636. *Apocynum androsaemifolium* L. Spreading Dogbane. Plain Twp., Wood Co. R. E. Shanks. Burton, Geauga Co. C. A. Dambach.
1637. *Apocynum medium* Greene. Intermediate Dogbane. Union Twp., Logan Co. A. G. Welshimer.
1638. *Apocynum cannabinum* L. Indian-hemp. Union Twp., Logan Co. A. G. Welshimer.
1641. *Asclepiodora viridis* (Walt.) Gr. Oblong-leaf Green Milkweed. Scioto Twp., Ross Co. Edward S. Thomas.
1642. *Acerates viridiflora* (Raf.) Eat. Green Milkweed. Union Twp., Logan Co. A. G. Welshimer.
1645. *Asclepias purpurascens* L. Purple Milkweed. Champaign Co. Margaret B. Church.
1646. *Asclepias incarnata* L. Swamp Milkweed. Plain Twp., Wood Co. R. E. Shanks.
1653. *Asclepias quadrifolia* Jacq. Fourleaf Milkweed. Mill Twp., Tuscarawas Co. Irma Nelson and R. C. Wallace. Plain Twp., Stark Co. Don M. Brown.
1655. *Gonolobus laevis* Mx. Sandvine. Crawford Co. Don M. Brown.
1657. *Vincetoxicum obliquum* (Jacq.) Britt. Large-flowered Vincetoxicum. Moonville, Vinton Co. Walter P. Porter.
1681. *Solanum dulcamara* L. Bitter-sweet. Burton, Geauga Co. C. A. Dambach.
1682. *Verbascum blattaria* L. Moth Mullen. Burton, Geauga Co. C. A. Dambach.
1686. *Penstemon digitalis* (Sweet) Nutt. Foxglove Beard-tongue. Canton, Stark Co. Don M. Brown.
1694. *Scrophularia marylandica* L. Maryland Figwort. Berne Twp., Fairfield Co. William Goslin.
1699. *Leucospora multifida* (Mx.) Penn. Leucospora. Hocking Twp., Fairfield Co. Robert Goslin.
1701. *Gratiola neglecta* Torr. Clammy Hedge-hyssop. Vinton Co. Len Stephenson. Athens Co. Walter P. Porter.
- 1701.1. *Gratiola viscidula shortii* Penn. Athens, Athens Co. Warren Abbott.
1707. *Aureolaria flava* (L.) Farw. Smooth False Foxglove. Rush Twp., Tuscarawas Co. C. W. Wallace.
1711. *Agalinis purpurea* (L.) Penn. Large-flowered Agalinis. Washington Twp., Henry Co. Liberty Twp., Wood Co. R. E. Shanks.
1720. *Veronica officinalis* L. Common Speedwell. Burton, Geauga Co. C. A. Dambach.
1726. *Veronica serpyllifolia* L. Thyme-leaf Speedwell. Pleasant Twp., Fairfield Co. William Goslin.
1728. *Veronica arvensis* L. Field Speedwell. Liberty Twp., Wood Co. R. E. Shanks.
1751. *Thalesia uniflora* (L.) Britt. Naked Broom-rape. Adams Co. John N. Wolfe.
1753. *Conopholis americana* (L. f.) Wallr. Squaw-root. Athens, Athens Co. Warren Abbott.
1754. *Leptamnium virginianum* (L.) Raf. Beech-drops. Richfield Twp., Henry Co. R. E. Shanks.
1759. *Stomopsis cornuta* (Mx.) Raf. Horned Bladderwort. Plain Twp., Stark Co. Don M. Brown.
1768. *Cynoglossum officinale* L. Hound's-tongue. Champaign Co. Margaret B. Church.
1769. *Cynoglossum virginianum* L. Wild Comfrey. Athens, Athens Co. Warren Abbott.
1773. *Lithospermum arvense* L. Corn Gromwell. Athens, Athens Co. Warren Abbott.
1786. *Echium vulgare* L. Blue-weed. Suffield Twp., Portage Co. Don M. Brown.

1787. *Verbena urticaefolia* L. White Vervain. Henry Twp., Wood Co. R. E. Shanks.
1789. *Verbena angustifolia* Mx. Narrowleaf Vervain. Bloom and Liberty Twp., Wood Co. R. E. Shanks.
1793. *Lippia lanceolata* Mx. Frog-fruit. Damascus Twp., Henry Co. R. E. Shanks.
1799. *Teucrium occidentale* Gr. Hairy Germander. Berne Twp., Fairfield Co. William Goslin.
1801. *Scutellaria lateriflora* L. Mad-dog Skullcap. Plain Twp., Wood Co. R. E. Shanks. Berne Twp., Fairfield Co. Robert and William Goslin.
1809. *Scutellaria galericulata* L. Marsh Skullcap. Oak Openings, Lucas Co. Floyd Bartley and Leslie L. Pontius.
1810. *Scutellaria nervosa* Pursh. Veined Skullcap. Wayne Twp., Tuscarawas Co. Don M. Brown.
1821. *Lycopus americanus* Muhl. Cutleaf Water-hoarhound. Berne Twp., Fairfield Co. Robert Goslin.
1823. *Lycopus virginicus* L. Virginia Water-hoarhound. Brown Twp., Carroll Co. Don M. Brown.
1826. *Collinsonia canadensis* L. Stone-root. Berne Twp., Fairfield Co. William Goslin. Damascus Twp., Henry Co. R. E. Shanks.
1827. *Koellia virginiana* (L.) MacM. Virginia Mountain-mint. Berne Twp., Fairfield Co. William Goslin. Washington Twp., Henry Co. R. E. Shanks.
1828. *Koellia flexuosa* (Walt.) MacM. Narrowleaf Mountain-mint. Berne Twp., Fairfield Co. William Goslin. Jackson Twp., Stark Co. Don M. Brown.
1830. *Koellia incana* (L.) Ktz. Hoary Mountain-mint. Dover Twp., Tuscarawas Co. Don M. Brown.
1839. *Melissa officinalis* L. Lemon Balm. Canton, Stark Co. Don M. Brown.
1840. *Hedeoma pulegioides* (L.) Pers. American Pennyroyal. Berne Twp., Fairfield Co. Robert Goslin.
1842. *Agastache nepetoides* (L.) Ktz. Catnip Giant-hyssop. Berne Twp., Fairfield Co. Robert Goslin.
1851. *Stachys palustris* L. Marsh Hedge-nettle. Liberty Twp., Wood Co. R. E. Shanks.
1867. *Monarda fistulosa* L. Wild Bergamot. Berne Twp., Fairfield Co. William Goslin.
1873. *Salvia lanceifolia* Poir. Lanceleaf Sage. North Union, Ross Co. Floyd Bartley and Leslie L. Pontius.
1880. *Plantago aristata* Mx. Large-bracted Plantain. Mill Twp., Tuscarawas Co. Irma Nelson.
1885. *Plantago virginica* L. Dwarf Plantain. Mill Twp., Tuscarawas Co. Irma Nelson.
1886. *Aralia spinosa* L. Angelica-tree. New Lexington, Perry Co. Walter Matz.
1887. *Aralia racemosa* L. American Spikenard. Plain Twp., Stark Co. Don M. Brown.
1889. *Aralia nudicaulis* L. Wild Sarsaparilla. Dover Twp., Tuscarawas Co. Irma Nelson.
1890. *Panax quinquefolium* L. Common Ginseng. Lawrence Twp., Tuscarawas Co. Don M. Brown.
1891. *Panax trifolium* L. Dwarf Ginseng. Plain Twp., Stark Co., and Lawrence Twp., Tuscarawas Co. Don M. Brown.
1896. *Sanicula marylandica* L. Black Snakeroot. Plain Twp., Stark Co. Don M. Brown. Damascus Twp., Henry Co., and Henry Twp., Wood Co. R. E. Shanks.
1901. *Torilis anthriscus* (L.) Gmel. Erect Hedge Parsley. New Vienna, Clinton Co. Katie M. Roads.
1902. *Deringa canadensis* (L.) Ktz. Homewort. Liberty Twp., Wood Co. R. E. Shanks. Berne Twp., Fairfield Co. William Goslin.
1903. *Chaerophyllum procumbens* (L.) Crantz. Spreading Chervil. Berne Twp., Fairfield Co. William Goslin.
1905. *Washingtonia longistylis* (Torr.) Britt. Long-styled Sweet-cicely. Wood Co. R. E. Shanks.

1914. *Heracleum lanatum* Mx. Cow-parsnip. Nimishellen Twp., Stark Co. Don M. Brown.
1916. *Angelica villosa* (Walt.) B. S. P. Hairy Angelica. Canton Twp., Stark Co. Dover Twp., Tuscarawas Co. Don M. Brown.
1918. *Oxypolis rigidus* (L.) Raf. Cowbane. Berne Twp., Fairfield Co. Robert and William Goslin.
1919. *Zizia aurea* (L.) Koch. Early Meadow-parsnip. Liberty Twp., Wood Co. R. E. Shanks. Highland Co. Katie M. Roads.
1920. *Zizia cordata* (Walt.) DC. Heartleaf Meadow Parsnip. New Market Twp., Highland Co. Katie M. Roads.
1921. *Taenidia integerrima* (L.) Drude. Yellow Pimpernel. Liberty Twp., Wood Co. R. E. Shanks.
1925. *Conium maculatum* L. Poison-hemlock. Chillicothe, Ross Co. Edward S. Thomas. Bellefontaine, Logan Co. A. G. Welshimer.
1926. *Sium cicutaefolium* Schrank. Water-parsnip. Berne Twp., Fairfield Co. Robert and William Goslin.
1927. *Aegopodium podagraria* L. Goutweed. Bellefontaine, Logan Co. A. G. Welshimer.
1929. *Cicuta maculata* L. Spotted Water-hemlock. Liberty Twp., Wood Co. R. E. Shanks.
1934. *Erigenia bulbosa* (Mx.) Nutt. Harbinger-of-spring. Berne Twp., Fairfield Co. Robert Goslin.
1937. *Cornus asperifolia* Mx. Roughleaf Dogwood. Liberty Twp., Wood Co. R. E. Shanks.
1939. *Cornus femina* Mill. Panicle Dogwood. Liberty Twp., Wood Co. R. E. Shanks.
1943. *Nyssa sylvatica* Marsh. Tupelo. Harrison Twp., Henry Co. R. E. Shanks.
1952. *Mitchella repens* L. Partridge-berry. Dundee, Tuscarawas Co. Don M. Brown. Montgomery Twp., Wood Co. R. E. Shanks. Burton, Geauga Co. C. A. Dambach.
1954. *Diodia teres* Walt. Rough Buttonweed. Rose Twp., Carroll Co. Don M. Brown.
1956. *Galium boreale* L. Northern Bedstraw. Nimishellen Twp., Stark Co. Don M. Brown.
1958. *Galium circaezans* Mx. Wild Licorice. Harrison Twp., Henry Co., Liberty Twp., Wood Co. R. E. Shanks.
1959. *Galium lanceolatum* Torr. Lanceleaf Wild Licorice. Plain Twp., Stark Co. Don M. Brown.
1961. *Galium triflorum* Mx. Fragrant Bedstraw. Washington Twp., Henry Co. and Henry Twp., Wood Co. R. E. Shanks.
1962. *Galium mollugo* L. White Bedstraw. Prattsville, Vinton Co. Walter P. Porter.
1966. *Galium claytoni* Mx. Clayton's Bedstraw. Rowland's Pond, Athens Co. Walter P. Porter and P. S. Wamsley.
1967. *Galium trifidum* L. Small Bedstraw. Henry Twp., Wood Co. R. E. Shanks.
1972. *Viburnum acerifolium* L. Maple-leaf Arrow-wood. Harrison Twp., Henry Co. R. E. Shanks.
1980. *Viburnum cassinoides* L. Withe-rod. Canton Twp., Stark Co. Don M. Brown.
1981. *Viburnum lentago* L. Sheepberry. Henry Twp., Wood Co. R. E. Shanks.
1982. *Viburnum prunifolium* L. Black Haw. Monroe Twp., Henry Co. R. E. Shanks.
1986. *Triosteum perfoliatum* L. Common Horse-gentian. Dover Twp., Tuscarawas Co. Irma Nelson.
1997. *Lonicera glaucescens* Rydb. Glaucous Honeysuckle. Henry Twp., Wood Co. R. E. Shanks.
2009. *Campanula americana* L. Tall Bellflower. Henry Twp., Wood Co. R. E. Shanks.
2014. *Specularia perfoliata* (L.) A. DC. Venus'-looking-glass. Liberty Twp., Wood Co. R. E. Shanks.
2015. *Lobelia cardinalis* L. Cardinal Lobelia. Washington Twp., Henry Co. R. E. Shanks.

2016. *Lobelia syphilitica* L. Blue Lobelia. Washington Twp., Henry Co. R. E. Shanks.
2019. *Lobelia inflata* L. Indian-tobacco. Bloom Twp., Wood Co. R. E. Shanks.
2021. *Lobelia spicata* Lam. Pale Spiked Lobelia. Plain Twp., Henry Co. R. E. Shanks.
2033. *Rudbeckia hirta* L. Black-eyed Susan. Berne Twp., Fairfield Co. William Goslin.
2043. *Helianthus microcephalis* T. & G. Small Wood Sunflower. Plain Twp., Stark Co., and Lawrence Twp., Tuscarawas Co. Don M. Brown.
2045. *Helianthus giganteus* L. Giant Sunflower. Washington Twp., Henry Co., and Plain Twp., Wood Co. R. E. Shanks. Jackson Twp., Stark Co. Don M. Brown.
2046. *Helianthus altissimus* L. Tall Sunflower. Sandy Twp., Stark Co. Don M. Brown.
2055. *Helianthus decapetalus* L. Thinleaf Sunflower. Union Twp., Logan Co. A. G. Welshimer.
2057. *Helianthus strumosus* L. Paleleaf Wood Sunflower. Plain Twp., Stark Co. Don M. Brown.
2076. *Bidens aristosa* (Mx.) Britt. Western Tickseed. Berne Twp., Fairfield Co. William Goslin.
2083. *Coreopsis tripteris* L. Tall Tickseed. Washington Twp., Henry Co. R. E. Shanks. Henley, Scioto Co. Katie M. Roads.
2087. *Polymnia uvedalia* L. Yellow Leaf-cup. Moonville, Vinton Co. Walter P. Porter and P. S. Wamsley.
2096. *Helenium autumnale* L. Common Sneezeweed. Damascus Twp., Henry Co. R. E. Shanks.
2097. *Helenium nudiflorum* Nutt. Purple-headed Sneezeweed. Goshen Twp., Tuscarawas Co. Irma Nelson.
2119. *Solidago squarrosa* Muhl. Stout Goldenrod. Waterloo Twp., Athens Co. Walter P. Porter and P. S. Wamsley.
2120. *Solidago bicolor* L. White Goldenrod. Canton, Stark Co. Don M. Brown.
2122. *Solidago flexicaulis* L. Zig-zag Goldenrod. Pleasant Twp., Fairfield Co. Robert and William Goslin. Brown Twp., Carroll Co. Don M. Brown.
2123. *Solidago caesia* L. Wreath Goldenrod. Richfield Twp., Henry Co. R. E. Shanks.
2129. *Solidago nemoralis* Ait. Gray Goldenrod. Washington Twp., Henry Co. R. E. Shanks.
2130. *Solidago canadensis* L. Canada Goldenrod. Berne Twp., Fairfield Co. Robert Goslin.
2131. *Solidago serotina* Ait. Late Goldenrod. Sandy Twp., Stark Co. Don M. Brown.
2134. *Solidago ulmifolia* Muhl. Elmleaf Goldenrod. Lawrence Twp., Tuscarawas Co. Don M. Brown.
2136. *Solidago neglecta* T. & G. Swamp Goldenrod. Harmon Twp., Clark Co. Helen Rea and E. S. Thomas.
2137. *Solidago juncea* Ait. Plume Goldenrod. Jackson Twp., Stark Co. Don M. Brown.
2141. *Euthamia graminifolia* (L.) Nutt. Bushy Fragrant Goldenrod. Berne Twp., Fairfield Co. Robert Goslin.
2145. *Sericocarpus asteroides* (L.) B. S. P. Toothed White-top Aster. Moonville, Vinton Co. Walter P. Porter and P. S. Wamsley.
- 2149.1. *Aster roscidus* Burgess. Dewy-leaf Aster. Oak Openings, Lucas Co. Floyd Bartley and Leslie L. Pontius.
2152. *Aster cordifolius* L. Common Blue Wood Aster. Plain Twp., Stark Co. Don M. Brown.
2153. *Aster lowrieanus* Port. Lowrie's Aster. Pike Twp., Stark Co. Don M. Brown.
2157. *Aster undulatus* L. Wavy-leaf Aster. Plain Twp., Stark Co. Don M. Brown.
2158. *Aster puniceus* L. Purple-stem Aster. Jackson Twp., Stark Co. Don M. Brown.
2160. *Aster novae-angliae* L. New England Aster. Berne Twp., Fairfield Co. Robert Goslin.



2163. *Aster prenanthoides* Muhl. Crooked-stem Aster. Berne Twp., Fairfield Co. Robert Goslin. Canton Twp., Stark Co. Don M. Brown.
2167. *Aster lateriflorus* (L.) Britt. Starved Aster. Plain Twp., Stark Co. Don M. Brown.
2168. *Aster hirsuticaulis* Lindl. Rough-stem Aster. Sandy Twp., Stark Co. Don M. Brown.
2170. *Aster multiflorus* Ait. Dense-flowered Aster. Canton Twp., Stark Co. Don M. Brown. Berne Twp., Fairfield Co. Robert Goslin.
2172. *Aster salicifolius* Lam. Willow Aster. Canton Twp., Stark Co. Don M. Brown.
2173. *Aster paniculatus* Lam. Panicked Aster. Rose Twp., Carroll Co. Don M. Brown.
2174. *Aster tradescanti* L. Tradescant's Aster. Sandy Twp., Stark Co. Don M. Brown. Greenfield Twp., Fairfield Co. Robert Goslin.
2178. *Erigeron pulchellus* Mx. Showy Fleabane. Jackson Twp., Stark Co. Don M. Brown.
2191. *Eupatorium sessilifolium* L. Upland Boneset. Canton Twp., Stark Co., and Lawrence Twp., Tuscarawas Co. Don M. Brown.
2210. *Anthemis arvensis* L. Field Dog-fennel. Jackson Twp., Stark Co. Don M. Brown.
2232. *Senecio obovatus* Muhl. Roundleaf Squaw-weed. Berne Twp., Fairfield Co. William Goslin.
2237. *Mesadenia atriplicifolia* (L.) Raf. Pale Indian-plantain. Washington Twp., Henry Co., and Plain Twp., Wood Co. R. E. Shanks.
2239. *Erechtites hieracifolia* (L.) Raf. Fireweed. Berne Twp., Fairfield Co. Robert and William Goslin.
2251. *Cirsium muticum* Mx. Swamp Thistle. Berne Twp., Fairfield Co. Robert Goslin. Washington Twp., Henry Co. R. E. Shanks.
2252. *Cirsium arvense* (L.) Scop. Canada Thistle. Athens Twp., Athens Co. Harold H. Moore.
2254. *Onopordon acanthium* L. Scotch Thistle. Edge of railroad tracks at Evergreen, Gallia Co. Clyde H. Jones.
2255. *Centaurea jacea* L. Brown Star-thistle. New Vienna, Clinton Co. Katie M. Roads.
2258. *Centaurea vochinensis* Bernh. Tyrol Star-thistle. Athens, Athens Co. R. Rypma.
2259. *Centaurea maculosa* Lam. Spotted Star-thistle. Ashland Co. H. M. Spandau. Plain Twp., Stark Co. Don M. Brown.
2266. *Cynthia virginica* (L.) D. Don. Virginia Cynthia. Moreland, Wayne Co. Don M. Brown. Berne Twp., Fairfield Co. William Goslin.
2273. *Tragopogon pratensis* L. Yellow Goat's-beard. Hocking Twp., Fairfield Co. Robert Goslin.
2274. *Tragopogon porrifolius* L. Salsify. Canton Twp., Stark Co. Don M. Brown.
2276. *Hieracium paniculatum* L. Panicked Hawkweed. Plain Twp., Stark Co. Don M. Brown.
2281. *Hieracium aurantiacum* L. Orange Hawkweed. Newark, Licking Co. Warren Abbott. Plain Twp., Stark Co. Don M. Brown.
2282. *Hieracium pratensis* Tausch. Field Hawkweed. Jackson Twp., Stark Co. Don M. Brown.
2284. *Hieracium venosum* L. Veined Hawkweed. Athens, Athens Co. Warren Abbott. Burton, Geauga Co. C. A. Dambach.
2292. *Nabalus altissimus* (L.) Hook. Tall Rattlesnake-root. Plain Twp., Wood Co. R. E. Shanks.
2299. *Sonchus asper* (L.) Hill. Spiny Sow-thistle. Berne Twp., Fairfield Co. Robert Goslin.
2302. *Lactuca spicata* (Lam.) Hitchc. Tall Blue Lettuce. Berne Twp., Fairfield Co. Robert Goslin.